## REFERENCES

- [1] M. R. Cox, Cinderella: Three hundred and forty-five variants of Cinderella, Catskin, and Cap o'Rushes. No. 31, Folk-lore Society, 1893.
- [2] Tim Berners-Lee, "The WorldWideWeb browser." https://www.w3.org/People/Berners-Lee/WorldWideWeb.html, 1990.
- [3] A. Guha, C. Saftoiu, and S. Krishnamurthi, "The essence of javascript," in ECOOP 2010 – Object-Oriented Programming (T. D'Hondt, ed.), (Berlin, Heidelberg), pp. 126–150, Springer Berlin Heidelberg, 2010.
- [4] M. Mulazzani, P. Reschl, M. Huber, M. Leithner, S. Schrittwieser, E. Weippl, and F. Wien, "Fast and reliable browser identification with javascript engine fingerprinting," in Web 2.0 Workshop on Security and Privacy (W2SP), vol. 5, p. 4, Citeseer, 2013.
- [5] L. Clark, "What makes webassembly fast?," 2017.
- [6] D. Yu, A. Chander, N. Islam, and I. Serikov, "Javascript instrumentation for browser security," in *Proceedings of the 34th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, POPL '07, (New York, NY, USA), p. 237–249, Association for Computing Machinery, 2007.
- [7] Y. Ko, T. Rezk, and M. Serrano, "Securejs compiler: Portable memory isolation in javascript," in *Proceedings of the 36th Annual ACM Symposium on Applied Computing*, SAC '21, (New York, NY, USA), p. 1265–1274, Association for Computing Machinery, 2021.
- [8] A. Haas, A. Rossberg, D. L. Schuff, D. L. Schuff, B. L. Titzer, M. Holman, D. Gohman, L. Wagner, A. Zakai, and J. F. Bastien, "Bringing the web up to speed with webassembly," *PLDI*, 2017.
- [9] WebAssembly Community Group, "WebAssembly Specification." https://webassembly.github.io/spec/core/syntax/index.html, 2017.
- [10] P. Mendki, "Evaluating webassembly enabled serverless approach for edge computing," in 2020 IEEE Cloud Summit, pp. 161–166, 2020.
- [11] M. Jacobsson and J. Wåhslén, "Virtual machine execution for wearables based on webassembly," in *EAI International Conference on Body Area Networks*, pp. 381–389, Springer, Cham, 2018.

76 REFERENCES

[12] Bytecode Alliance, "Bytecode Alliance." https://bytecodealliance.org/, 2019.

- [13] "Webassembly system interface." https://github.com/WebAssembly/WASI, 2021.
- [14] D. Lehmann, J. Kinder, and M. Pradel, "Everything old is new again: Binary security of webassembly," in 29th USENIX Security Symposium (USENIX Security 20), USENIX Association, Aug. 2020.
- [15] Q. Stiévenart, C. De Roover, and M. Ghafari, "Security risks of porting c programs to webassembly," in *Proceedings of the 37th ACM/SIGAPP Symposium on Applied Computing*, SAC '22, (New York, NY, USA), p. 1713–1722, Association for Computing Machinery, 2022.
- [16] T. Rokicki, C. Maurice, M. Botvinnik, and Y. Oren, "Port contention goes portable: Port contention side channels in web browsers," in *Proceedings of the 2022 ACM on Asia Conference on Computer and Communications Security*, ASIA CCS '22, (New York, NY, USA), p. 1182–1194, Association for Computing Machinery, 2022.
- [17] D. Genkin, L. Pachmanov, E. Tromer, and Y. Yarom, "Drive-by key-extraction cache attacks from portable code," *IACR Cryptol. ePrint Arch.*, vol. 2018, p. 119, 2018.
- [18] G. Maisuradze and C. Rossow, "Ret2spec: Speculative execution using return stack buffers," in *Proceedings of the 2018 ACM SIGSAC Conference on Computer and Communications Security*, CCS '18, (New York, NY, USA), p. 2109–2122, Association for Computing Machinery, 2018.
- [19] M. Musch, C. Wressnegger, M. Johns, and K. Rieck, "Thieves in the browser: Web-based cryptojacking in the wild," in *Proceedings of the 14th International Conference on Availability, Reliability and Security*, ARES '19, Association for Computing Machinery, 2019.
- [20] E. Tekiner, A. Acar, A. S. Uluagac, E. Kirda, and A. A. Selcuk, "In-browser cryptomining for good: An untold story," in 2021 IEEE International Conference on Decentralized Applications and Infrastructures (DAPPS), pp. 20–29, 2021.
- [21] R. K. Konoth, E. Vineti, V. Moonsamy, M. Lindorfer, C. Kruegel, H. Bos, and G. Vigna, "Minesweeper: An in-depth look into drive-by cryptocurrency mining and its defense," in *Proceedings of the 2018 ACM SIGSAC Conference on Computer and Communications Security*, pp. 1714–1730, 2018.
- [22] A. Romano, Y. Zheng, and W. Wang, "Minerray: Semantics-aware analysis for ever-evolving cryptojacking detection," in *Proceedings of the 35th*